



Joint Street Lighting Committee

26 September 2023

Street Lighting PFI Performance Report for 1 July 2022 to 30 June 2023

Report by: Paul Nelson, Head of Environmental Sustainability, North Tyneside Council

Ward Implications: All

For Information

1. Summary

- 1.1 This report details the performance of the service provider between 1 July 2022 to 30 June 2023 and includes additional details on electricity consumption, spend and reduction programmes.

2. Recommendation

- 2.1 Committee is recommended to receive this report for information and note the comments on performance.

3. Introduction/Background

- 3.1 This report covers the period between 1 July 2022 to 30 June 2023 and outlines performance against a number of contract performance standards and local indicators.

4. Key Issues and Progress

4.1 Contract Monitoring General Comments

- 4.1.1 Over 90% of standard repairs were carried out within the 5-day target across both areas. There were a number of repairs that significantly missed target. Contract improvement leavers were used in the third quarter to recover the performance to acceptable levels. This is now running at 97% minimum. With role out of LED's the number of faults has reduced by a further 13% in year.

Across the twelve-month period the District Network Operator (Northern Powergrid) made 70% of repairs within the 30-day target. The aftereffects of storm Arwen & Barra are still bringing service levels down with engineer non-availability.

There were 335 emergency repairs across the twelve-month period. This is a 24% reduction on previous year. 35 of these exceeded the one-hour repair target. (17 due to one incident around access issue to Town Moor).

The performance standards are detailed in Appendix 1.

4.2 **Performance Standard 1** – Monitors the Initial Asset Renewal Programme (IARP);

As we are now beyond the IARP period, PS1 now shows the total number of street lighting apparatus in each Local Authority area.

4.3 **Performance Standard 2** – Monitors the percentage of lighting apparatus in lighting across the month. Example values are given. Contract targets fell for a few months but on application of contract levers and working with the provider returned to acceptable levels and maintained into final quarter.

4.4 **Performance Standard 3** – Monitors responsiveness to repairing faults;

- Criteria A – Performance in this area dipped but is now satisfactory.
- Criteria B – Performance in this area dipped but is now returning to satisfactory.

4.5 **Electricity consumption and spend;**

Both Authorities are consuming significantly less electricity than the contractual forecast. Commentary is given on progress towards making further efficiencies through the introduction / further roll out of LED lighting. Carbon Footprint data is included.

4.6 **Financial**

4.6.1 Contract payment is by means of a unitary charge which would be subject to deductions and penalties for poor performance. Details of the payments and penalties are provided in the confidential Finance Report.

5. **What Happens Next**

5.1 Six monthly performance reports will be presented at future Joint Street Lighting Committee meetings.

6. **Further Information**

6.1 Background papers are held by;

Paul Nelson	0191 643 6467	North Tyneside
Pamela Holmes	0191 211 5917	Newcastle



North Tyneside Council



JOINT STREET LIGHTING COMMITTEE

PFI Performance Report for 1 July 2022 to 30 June 2023

Performance Standard 1 - Total Number of Street Lighting Apparatus

	Newcastle	North Tyneside
Jul-22	48166	38249
Aug-22	48167	38269
Sep-22	48167	38281
Oct-22	48164	38283
Nov-22	48163	38298
Dec-22	48165	38298
Jan-23	48172	38301
Feb-23	48174	38304
Mar-23	48169	38324
Apr-23	48172	38323
May-23	48163	38323
Jun-23	48175	38327

Now includes cables

Performance Standard 2 - Percentage of Lights in Light

	Newcastle		North Tyneside	
	In Lighting		In Lighting	
	% of apparatus in lighting (Target)	% of apparatus in lighting (Achieved)	% of apparatus in lighting (Target)	% of apparatus in lighting (Achieved)
Jul-22	98.50%	99.43%	98.50%	98.80%
Aug-22	98.50%	99.55%	98.50%	98.85%
Sep-22	98.50%	99.49%	98.50%	98.83%
Oct-22	98.50%	99.48%	98.50%	98.74%
Nov-22	98.50%	99.43%	98.50%	98.55%
Dec-22	98.50%	99.04%	98.50%	98.61%
Jan-23	98.50%	98.82%	98.50%	98.52%
Feb-23	98.50%	96.47%	98.50%	98.53%
Mar-23	98.50%	96.49%	98.50%	98.73%
Apr-23	98.50%	94.55%	98.50%	95.88%
May-23	98.50%	99.50%	98.50%	99.34%
Jun-23	98.50%	99.97%	98.50%	99.23%

Performance Standard 3 Emergency Faults Criteria A

	Newcastle			North Tyneside		
	Number of Emergency responses	Number of Emergency responses attended within 1 hour	% within target	Number of Emergency responses	Number of Emergency responses attended within 1 hour	% within target
Jul-22	13	11	85%	1	1	100%
Aug-22	16	11	69%	2	2	100%
Sep-22	15	11	73%	17	17	100%
Oct-22	43	41	95%	16	15	94%
Nov-22	73	56	77%	3	3	100%
Dec-22	26	25	96%	9	9	100%
Jan-23	21	20	95%	6	5	83%
Feb-23	7	7	100%	6	6	100%
Mar-23	5	4	80%	14	14	100%
Apr-23	4	4	100%	4	4	100%
May-23	17	17	100%	7	7	100%
Jun-23	5	5	100%	5	5	100%

PERFORMANCE STANDARD 3 Criteria B

Newcastle repairs performance

	Enerveo repairs - Target 5 working days					Northern Powergrid repairs - Target 30 working days				
	Number of faults / instances	Number repaired within target	% within target	Av time	Max time	Number of faults / instances	Number repaired within target	% within target	Av time	Max time
Jul-22	125	120	96%	4	7	0	0	N/A	0	0
Aug-22	190	178	94%	5	129	7	4	57%	18	24
Sep-22	123	105	85%	3	7	7	4	57%	32	140
Oct-22	164	156	95%	4	14	0	0	N/A	0	0
Nov-22	200	180	90%	4	16	17	13	76%	16	25
Dec-22	228	192	84%	12	147	33	32	97%	9	33
Jan-23	446	377	85%	5	243	10	5	50%	29	44
Feb-23	294	230	78%	39	1,003	30	16	53%	55	260
Mar-23	207	182	88%	12	654	18	15	83%	21	50
Apr-23	217	166	76%	49	522	7	5	71%	29	118
May-23	128	105	82%	4	32	5	4	80%	25	79
Jun-23	131	121	92%	3	71	3	2	67%	25	46

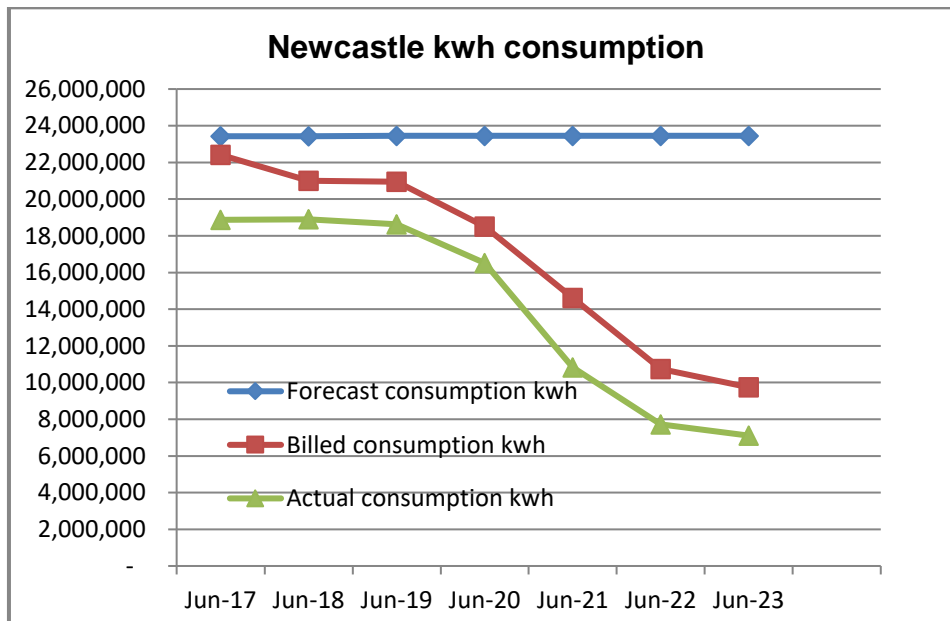
PERFORMANCE STANDARD 3 Criteria B

North Tyneside repairs performance

	Energieo repairs - Target 5 working days					Northern Powergrid repairs - Target 30 working days				
	Number of faults / instances	Number repaired within target	% within target	Av time	Max time	Number of faults / instances	Number repaired within target	% within target	Av time	Max time
Jul-22	289	284	98%	3	11	0	0	N/A	0	0
Aug-22	331	317	96%	4	38	6	6	100%	15%	19%
Sep-22	350	318	91%	3	8	3	3	100%	13	15
Oct-22	240	233	97%	4	10	0	0	N/A	0	0
Nov-22	332	294	89%	4	22	10	3	30%	22	25
Dec-22	264	226	86%	4	19	7	6	86%	26	41
Jan-23	339	266	78%	4	57	1	1	0%	33	33
Feb-23	246	246	100%	2	5	9	5	56%	33	53
Mar-23	277	277	100%	3	5	12	9	75%	25	61
Apr-23	252	207	82%	52	1038	16	6	38%	221	814
May-23	182	182	100%	2	4	9	8	89%	21	70
Jun-23	242	239	99%	5	890	6	4	67%	157	834

Newcastle Electricity Consumption

12 months to	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23
Forecast consumption kwh	23,427,356	23,427,356	23,452,316	23,452,316	23,452,316	23,452,316	23,452,316
Billed consumption kwh	22,413,025	20,999,015	20,948,282	18,501,886	14,609,129	10,734,053	9,741,877
Actual consumption kwh	18,872,882	18,898,287	18,632,734	16,510,078	10,818,204	7,727,385	7,107,537
Reduction in actual consumption	4,554,474	4,529,069	4,819,582	6,942,238	12,634,112	15,724,931	16,344,779
Billed Energy Cost	£2,479,630	£2,358,279	£2,702,140	£2,544,768	£2,005,929	£1,622,751	£1,847,960
Forecast cost (26ppu)							£6,097,602
Avoided costs							£4,249,643
Carbon Footprint (tonnes)	8,480	7,265	5,724	4,578	2,739	1,786	1,500



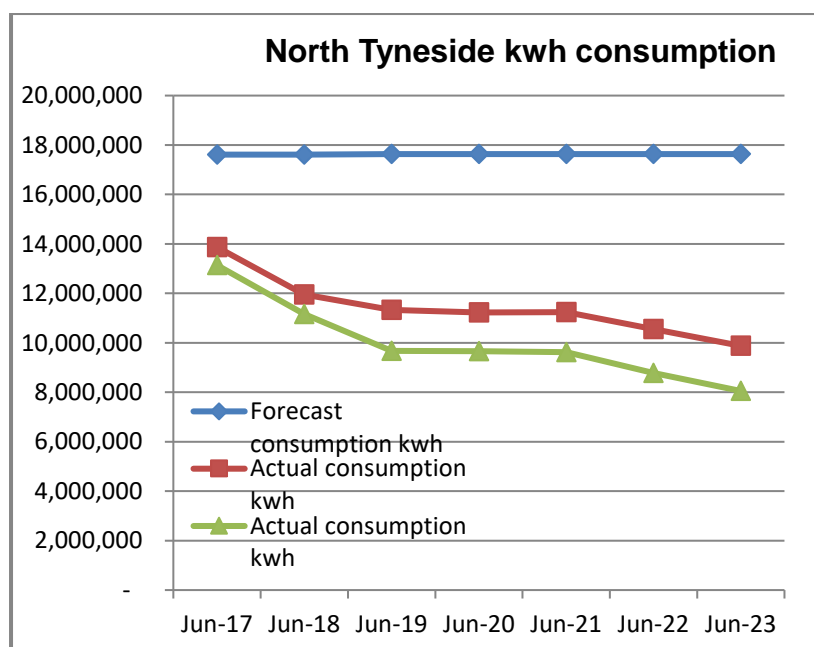
Since 2019 the graph clearly shows the reduction in consumption relating to the LED replacement scheme. This is now substantially complete with 93% of stock now LED. There will be further small reductions in the next two years as some lamps become obsolete and are replaced with LED equivalents by life cycle programmes.

Despite the 16 million KWH reduction in usage the energy cost is still increasing caused by the exceptional rise in the unit rate cost of energy during the reporting period.

The carbon footprint of street lighting in the last seven years has reduced by 82%.

North Tyneside Electricity Consumption

12 months to	Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-22	Jun-23
Forecast consumption kwh	17,611,959	17,611,959	17,633,847	17,633,847	17,633,847	17,633,847	17,633,847
Billed consumption kwh	13,870,521	11,950,579	11,329,796	11,230,407	11,242,798	10,555,859	9,877,755
Actual consumption kwh	13,139,597	11,163,320	9,667,823	9,658,157	9,622,080	8,786,844	8,052,497
Reduction in actual consumption	4,472,362	6,448,639	7,966,024	7,975,690	8,011,767	8,847,003	9,581,350
Billed Energy Cost	£1,556,902	£1,360,868	£1,479,031	£1,559,370	£1,553,556	£2,216,730	£2,568,216
Forecast cost (26ppu)							£4,584,800
Avoided costs							£2,016,584
Carbon Footprint (tonnes)	5,904	4,292	2,970	2,678	2,436	2,031	1,695



Savings from the initial LED replacement programme can start to be seen from 2017, with full year savings being enjoyed during 2019. The kwh reductions from the start of the second phase are evident in 22/23 energy savings and this downward trajectory will continue in 23/24. The full annual effect of 100% conversion will be delivered in 24/25 financial year.

The Council has estimated that due to the LED replacement programme, in addition to other efficiency measures, financial savings will equate to over £3m per year at current electricity prices.

Despite the 9.5 million KWH reduction in usage the energy cost is still increasing caused by the exceptional rise in the unit rate cost of energy during the reporting period.

The carbon footprint of street lighting has in the last seven reduced by 60%.